



Synonym

LRP5,LRP-5,LRP-7,LRP7,LR3

Source

Human LRP-5, Mouse IgG2a Fc Tag(LR5-H5254) is expressed from human 293 cells (HEK293). It contains AA Glu 644 - Gln 1263 (Accession # [O75197-1](#)).

Predicted N-terminus: Glu 644

Molecular Characterization

LRP-5(Glu 644 - Gln 1263) O75197-1	mFc(Glu 98 - Lys 330) P01863
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This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 96.6 kDa. The protein migrates as 95-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

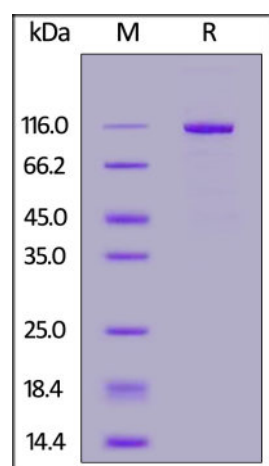
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human LRP-5, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

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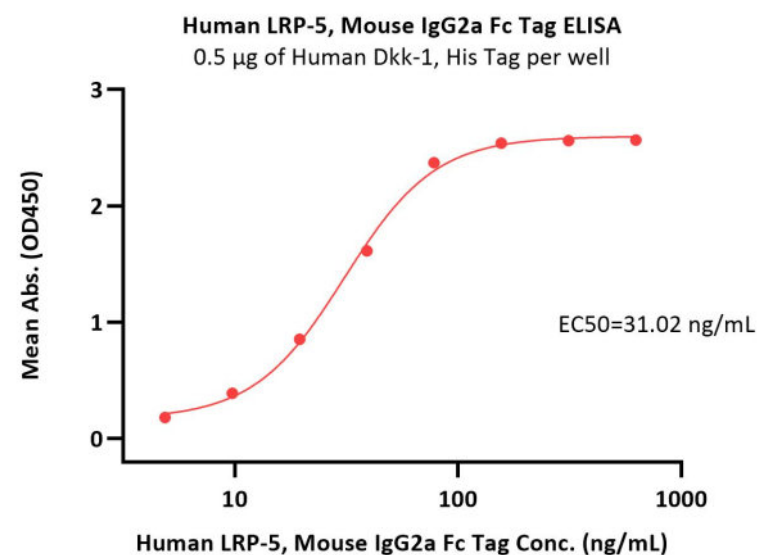
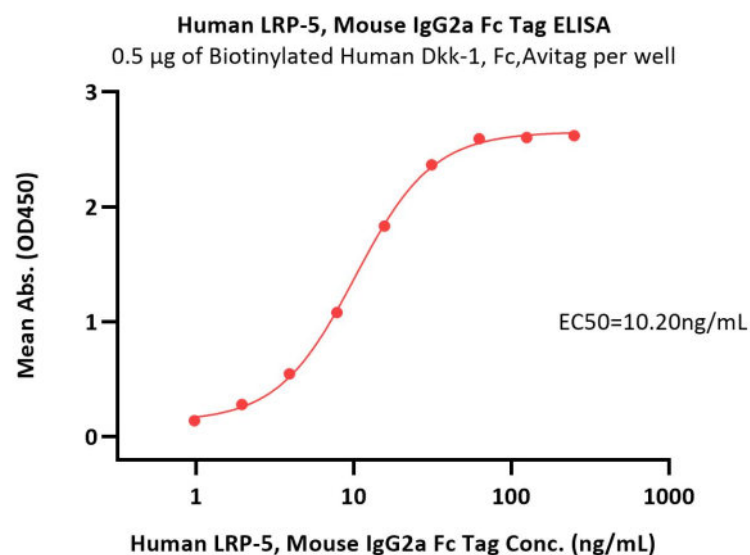


Human LRP-5 Protein, Mouse IgG2a Fc Tag

Catalog # LR5-H5254



BIOSYSTEMS
Acro



Immobilized Biotinylated Human Dkk-1, Fc,Avitag (Cat. No. DK1-H82F5) at 5 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human LRP-5, Mouse IgG2a Fc Tag (Cat. No. LR5-H5254) with a linear range of 1-31 ng/mL (QC tested).

Immobilized Human Dkk-1, His Tag (Cat. No. DK1-H5221) at 5 µg/mL (100 µL/well) can bind Human LRP-5, Mouse IgG2a Fc Tag (Cat. No. LR5-H5254) with a linear range of 5-156 ng/mL (Routinely tested).

Background

Low-density lipoprotein receptor-related protein 5(LRP-5) is also known as BMND1, EVR1, EVR4, HBM, LR3, LRP7, OPPG, OPTA1, VBCH2, LDL receptor related protein 5 and PCLD4. LRP5 is a transmembrane low-density lipoprotein receptor that shares a similar structure with LRP6. LRP5 acts as a co-receptor with LRP6 and the Frizzled protein family members for transducing signals by Wnt proteins through the canonical Wnt pathway. This protein plays a key role in skeletal homeostasis. Mutations in LRP5 can lead to considerable changes in bone mass. A loss-of-function mutation causes osteoporosis-pseudoglioma (decrease in bone mass), while a gain-of-function mutation causes drastic increases in bone mass.

Clinical and Translational Updates

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7/24/2024